IN THE CLAIMS

Please amend the claims as follows:

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1. (AMENDED) A data controller comprising:

a transfer extend generator that generates [TEs] transfer

extend entries for a data transfer; and

at least one retrieval channel coupled to receive the

5 transfer control entries for programming the data transfer.

3. (AMENDED) A data controller, that is couplable to a host and coupled to a storage medium, microprocessor, local storage and a buffer memory, comprising a command queuing engine that creates and executes threads of sequential commands while minimizing interrupts associated to the commands.

Sub B3 4. (AMENDED) A peripheral device that includes a data controller, a microprocessor, a buffer memory, local memory and a storage medium, and that is couplable to a host, wherein the data controller [that] creates threads of sequential commands and [that] generates interrupts at the beginning and end of the commands relative to a data transfer.

Please add the following new claims:

- 5. (NEW) The data controller of claim 1, further comprising a data retrieval channel and a status retrieval channel.
- 6. (NEW) The data controller of claim 1, wherein the transfer extend generator stores the transfer extend entries and the at least one retrieval channel retrieves the transfer extend entries and programs a corresponding data transfer.
- 7. (NEW) The data controller of claim 1, wherein the at least one retrieval channel also programs a status context.
- 8. (NEW) The data controller of claim 5, wherein the data retrieval channel programs a data context and the status retrieval channel programs a status context.

Sub B49. (NEW) The data controller of claim 8, wherein the status retrieval channel monitors a data transfer between a buffer memory and a storage medium.

10. (NEW) The data controller of claim 1, wherein the data controller is coupled to a first storage device that stores the transfer extend entries.

Sub B5)

- 11. (NEW) The data controller of claim 1, wherein the at least one retrieval channel provides used read pointers for reuse.
- 12. (NEW) The data controller of claim 2, further comprising a command queueing engine.
- 13. (NEW) The data controller of claim 12, wherein the command queueing engine includes a transfer extend generator and a data retrieval channel.
- 14. (NEW) The data controller of claim 13, wherein the command queueing engine further includes a status retrieval channel.
- 15. (NEW) The data controller of claim 14, wherein each of the retrieval channels are coupled to receive transfer extend entries and to provide used read pointers.
- 16. (NEW) The data controller of claim 3, wherein the command queueing engine includes a transfer extend generator that generates transfer extend entries.

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